Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
L1	692	'displacement assay'	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2005/12/07 18:53
L2	2	l1 and 'heat killed'	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2005/12/07 18:53
L3	442	l1 and antibody	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2005/12/07 18:54
L4	320	l3 and antigen	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2005/12/07 18:54
L5	1	l4 and varnish	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2005/12/07 18:57
L6	6	l4 and 'tetramethyl benzidine'	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2005/12/07 18:58
L7	113	l4 and 'horseradish peroxidase'	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2005/12/07 18:58

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   * * * * * * * * * * * * * * STN  Columbus  * * * * * * * * * * * * * * * *

FILE 'HOME' ENTERED AT 19:13:21 ON 07 DEC 2005

=> b ca
COST IN U.S. DOLLARS                                    SINCE FILE      TOTAL
                                                           ENTRY    SESSION
FULL ESTIMATED COST                                         0.21       0.21

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FILE COVERS 1907 - 1 Dec 2005 VOL 143 ISS 24
FILE LAST UPDATED: 1 Dec 2005  (20051201/ED)

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  This file contains CAS Registry Numbers for easy and accurate
  substance identification.


=> s displacement(w)assay?
         91521 DISPLACEMENT
        488357 ASSAY?
L1         438 DISPLACEMENT(W)ASSAY?

=> s l1 and heat(w)killed
       1198243 HEAT
         48511 KILLED
          2466 HEAT(W)KILLED
L2           1 L1 AND HEAT(W)KILLED

=> d all

L2   ANSWER 1 OF 1  CA  COPYRIGHT 2005 ACS on STN
AN   142:51793  CA
ED   Entered STN:  13 Jan 2005
TI     ***Displacement***     ***assay***   for selective biological material
     detection
IN   Bodenhamer, William T.
PA   USA
SO   U.S. Pat. Appl. Publ., 10 pp., nul
     CODEN: USXXCO
DT   Patent
LA   English
IC   ICM  G01N033-53
     ICS  G01N033-537; G01N033-543; C12M001-34
INCL 435007920; 435287200; 427002110
CC   9-1 (Biochemical Methods)
     Section cross-reference(s): 4, 10, 17
FAN.CNT 1
     PATENT NO.          KIND   DATE        APPLICATION NO.        DATE
     --------------      ----   --------    --------------------   --------
PI   US 2004259178        A1    20041223    US 2004-767464         20040128
PRAI US 2003-443299P      P     20030128
CLASS
 PATENT NO.      CLASS  PATENT FAMILY CLASSIFICATION CODES
```

US 2004259178	ICM	G01N033-53
	ICS	G01N033-537; G01N033-543; C12M001-34
	INCL	435007920; 435287200; 427002110
US 2004259178	NCL	435/007.920
	ECLA	G01N033/569D

AB The present invention relates to ***displacement*** ***assay*** type bioassay materials useful for the detection of toxic substances and, more particularly, to packaging materials for food and other products, along with methods for their manuf. and use. The invention provides a unique composite material capable of detecting and identifying multiple biol. materials within a single package. The biol. material identification system is designed for incorporation into existing types of flexible packaging material such as polyvinylchloride or polyolefin films, and its introduction into the existing packaging infrastructure will require little or no change to present systems or procedures. Pseudomonas LPS was printed in an icon shape in a water based varnish on strips of plastic. The strips were reacted with antibody-horseradish peroxidase conjugate, washed and placed in either wash buffer or ***heat*** - ***killed*** Pseudomonas soln. The strips were washed, dried and treated with TMB. The antibody-HRP conjugate was displaced by Pseudomonas in soln. as seen by color removal from the strips.

ST ***displacement*** ***assay*** biol material detection; toxic substance detection displacement bioassay; packaging material biol identification system; Pseudomonas detection antibody peroxidase conjugate ***displacement*** ***assay***

IT Adhesives
(Bynel, as polymer film; ***displacement*** ***assay*** for selective biol. material detection)

IT Plastics, analysis
RL: ARU (Analytical role, unclassified); DEV (Device component use); ANST (Analytical study); USES (Uses)
(Pseudomonas lipopolysaccharides printed in icon shape in water-based varnish on strips of; ***displacement*** ***assay*** for selective biol. material detection)

IT Lipopolysaccharides
RL: ARG (Analytical reagent use); BSU (Biological study, unclassified); DEV (Device component use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
(Pseudomonas, printed in icon shape in water-based varnish on plastic strips; ***displacement*** ***assay*** for selective biol. material detection)

IT Varnishes
(antibody bound through sol.; ***displacement*** ***assay*** for selective biol. material detection)

IT Polyolefins
RL: DEV (Device component use); USES (Uses)
(as polymer film; ***displacement*** ***assay*** for selective biol. material detection)

IT Food packaging materials
Packaging materials
(biol. material identification system in; ***displacement*** ***assay*** for selective biol. material detection)

IT Antibodies and Immunoglobulins
RL: ARG (Analytical reagent use); BSU (Biological study, unclassified); ANST (Analytical study); BIOL (Biological study); USES (Uses)
(conjugates; ***displacement*** ***assay*** for selective biol. material detection)

IT Pseudomonas
(detection of; ***displacement*** ***assay*** for selective biol. material detection)

IT Biological materials
Coloring materials
(***displacement*** ***assay*** for selective biol. material detection)

IT Toxins
RL: ANT (Analyte); BSU (Biological study, unclassified); ANST (Analytical study); BIOL (Biological study)
(***displacement*** ***assay*** for selective biol. material detection)

IT Polyamides, uses

```
      RL: DEV (Device component use); USES (Uses)
         (  ***displacement***     ***assay***   for selective biol. material
         detection)
IT    Polymers, analysis
      RL: ARU (Analytical role, unclassified); DEV (Device component use); ANST
      (Analytical study); USES (Uses)
         (  ***displacement***     ***assay***   on clear and flexible film of;
           ***displacement***     ***assay***   for selective biol. material
         detection)
IT    Bioassay
         (displacement;   ***displacement***     ***assay***   for selective
         biol. material detection)
IT    Composites
         (for identifying multiple biol. materials within single package;
           ***displacement***     ***assay***   for selective biol. material
         detection)
IT    Antigens
      RL: ARG (Analytical reagent use); BSU (Biological study, unclassified);
      DEV (Device component use); ANST (Analytical study); BIOL (Biological
      study); USES (Uses)
         (  ***heat***  -  ***killed***   or facsimile,   ***displacement***
           ***assay***   with;   ***displacement***     ***assay***   for
         selective biol. material detection)
IT    Films
         (of clear and flexible polymers,   ***displacement***     ***assay***
         on;   ***displacement***     ***assay***   for selective biol. material
         detection)
IT    9002-88-4, Polyethylene
      RL: DEV (Device component use); USES (Uses)
         (Sclair, as polymer film;   ***displacement***     ***assay***   for
         selective biol. material detection)
IT    9002-86-2, Polyvinylchloride   32131-17-2, Dartek, uses
      RL: DEV (Device component use); USES (Uses)
         (as polymer film;   ***displacement***     ***assay***   for selective
         biol. material detection)
IT    9003-99-0D, Peroxidase, conjugates with antibody
      RL: ARG (Analytical reagent use); BSU (Biological study, unclassified);
      CAT (Catalyst use); ANST (Analytical study); BIOL (Biological study); USES
      (Uses)
         (  ***displacement***     ***assay***   for selective biol. material
         detection)
IT    34314-06-2, Tetramethyl benzidine
      RL: ARG (Analytical reagent use); RCT (Reactant); ANST (Analytical study);
      RACT (Reactant or reagent); USES (Uses)
         (  ***displacement***     ***assay***   for selective biol. material
         detection)


=> s l1 and antibod?
        438445 ANTIBOD?
L3          56 L1 AND ANTIBOD?

=> s l3 and varnish
         25370 VARNISH
L4           1 L3 AND VARNISH

=> d ti

L4    ANSWER 1 OF 1  CA  COPYRIGHT 2005 ACS on STN
TI      ***Displacement***     ***assay***   for selective biological material
      detection


=> s l3 and polymer(w)film?
        1008419 POLYMER
        1131796 FILM?
          34947 POLYMER(W)FILM?
L5           1 L3 AND POLYMER(W)FILM?

=> d ti
```

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L5   ANSWER 1 OF 1  CA  COPYRIGHT 2005 ACS on STN
TI     ***Displacement***     ***assay***   for selective biological material
     detection


=> d his

     (FILE 'HOME' ENTERED AT 19:13:21 ON 07 DEC 2005)

     FILE 'CA' ENTERED AT 19:13:51 ON 07 DEC 2005
L1          438 S DISPLACEMENT(W)ASSAY?
L2            1 S L1 AND HEAT(W)KILLED
L3           56 S L1 AND ANTIBOD?
L4            1 S L3 AND VARNISH
L5            1 S L3 AND POLYMER(W)FILM?

=> logoff y
COST IN U.S. DOLLARS                                SINCE FILE      TOTAL
                                                         ENTRY    SESSION
FULL ESTIMATED COST                                      22.62      22.83

DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)          SINCE FILE      TOTAL
                                                         ENTRY    SESSION
CA SUBSCRIBER PRICE                                      -1.36      -1.36

STN INTERNATIONAL LOGOFF AT 19:17:55 ON 07 DEC 2005
```

Day : Wednesday

PALM INTRANET

Date: 12/7/2005
Time: 19:19:07

Inventor Name Search Result

Your Search was:

Last Name = BODENHAMER
First Name = [Nothing Entered]

Application#	Patent#	Status	Date Filed	Title	Inventor Name
60220954	Not Issued	159	07/26/2000	Special techniques for signal processing	BODENHAMER, ALBERT
06044508	4222654	150	06/01/1979	CAMERA ADAPTER BRACKET	BODENHAMER, DONALD J.
07002702	Not Issued	161	01/12/1987	COUPLING	BODENHAMER, ROBERT L.
07084813	4775982	150	08/13/1987	CRUCIBLE FOR ELECTRIC ARC FURNACE	BODENHAMER, ROBERT L.
07234699	Not Issued	161	08/22/1988	SEASONING DISPENSER	BODENHAMER, ROBERT L.
09218827	6051388	150	12/22/1998	METHOD AND APPARATUS FOR SELECTIVE BIOLOGICAL MATERIAL DETECTION	BODENHAMER, WILLIAM T
09550777	6376204	150	04/17/2000	METHOD AND APPARATUS FOR SELECTIVE BIOLOGICAL MATERIAL DETECTION	BODENHAMER, WILLIAM T.
09550779	6379908	150	04/17/2000	METHOD AND APPARATUS FOR SELECTIVE BIOLOGICAL MATERIAL DETECTION	BODENHAMER, WILLIAM T.
09724438	6692973	150	11/28/2000	SURFACE BINDING OF AN IMMUNOGLOBULIN TO A FLEXIBLE POLYMER USING A WATER SOLUBLE VARNISH MATRIX	BODENHAMER, WILLIAM T.
09837559	Not Issued	160	04/17/2001	Method and apparatus for biological material detection by heterogeneous light transmission	BODENHAMER, WILLIAM T.
09837639	6696264	150	04/17/2001	METHOD AND APPARATUS FOR DETECTION OF	BODENHAMER, WILLIAM T.

				MULTIPLE BIOLOGICAL MATERIALS WITH A HETEROGENEOUS ANTIBODY MIXTURE	
09930563	6841392	150	08/15/2001	METHOD AND APPARATUS FOR SELECTIVE BIOLOGICAL MATERIAL DETECTION	BODENHAMER, WILLIAM T.
10002402	6867052	150	10/25/2001	BIOLOGICAL MATERIAL DETECTING ARTICLES OF MANUFACTURE	BODENHAMER, WILLIAM T.
10767464	Not Issued	30	01/28/2004	Displacement assay for selective biological material detection	BODENHAMER, WILLIAM T.
60443299	Not Issued	159	01/28/2003	Displacement assay for selective biological material detection	BODENHAMER, WILLIAM T.

Inventor Search Completed: No Records to Display.

Search Another: Inventor **Last Name** bodenhamer **First Name** Search

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